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| APPLICATION NO. | FILING DATE                             | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|---|----------------------|---------------------|------------------|
| 10/556,354      | 02/10/2006                              | Hiroaki Takaoku      | P28768              | 6744             |
| 7055            | 7590 08/31/2007                         |                      | EXAMINER            |                  |
| 1950 ROLANI     | I & BERNSTEIN, P.L.C.<br>O CLARKE PLACE |                      | NGUYEN, VINCENT Q   |                  |
| RESTON, VA      | 20191                                   |                      | ART UNIT            | PAPER NUMBER     |
|                 |   |                      | 2858                |                  |
|                 |   |                      |                     |                  |
|                 |   |                      | NOTIFICATION DATE   | DELIVERY MODE    |
|                 |   |                      | 08/31/2007          | ELECTRONIC       |

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

| , * ·   |   |   | 13/      |  |  |  |  |
|---|---|---|----------|--|--|--|--|
|   | Application No.   | Applicant(s)  | <i>.</i> |  |  |  |  |
|   | 10/556,354  | TAKAOKU, HIROA  | KI       |  |  |  |  |
| Office Action Summary   | Examiner  | Art Unit  |          |  |  |  |  |
|   | Vincent Q. Nguyen   | 2858  |          |  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address   |   |   |          |  |  |  |  |
| Period for Reply  |   |   | =        |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNION 1.136(a). In no event, however, may a root will apply and will expire SIX (6) MON tute, cause the application to become AB | CATION. repty be timely filed ITHS from the mailing date of this co BANDONED (35 U.S.C. § 133). |          |  |  |  |  |
| Status  |   |   |          |  |  |  |  |
| 1) Responsive to communication(s) filed on  | •   |   |          |  |  |  |  |
| ·— · · · · · · · · · · · · · · · · · ·  | nis action is non-final.  |   |          |  |  |  |  |
| 3) Since this application is in condition for allow   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is                                   |   |          |  |  |  |  |
| closed in accordance with the practice under  | r <i>Ex parte Quayle</i> , 1935 C.D   | ). 11, 453 O.G. 213.  |          |  |  |  |  |
| Disposition of Claims   | •   |   |          |  |  |  |  |
| 4)⊠ Claim(s) <u>1-20</u> is/are pending in the application  | on.   |   |          |  |  |  |  |
| 4a) Of the above claim(s) is/are withdrawn from consideration.  |   |   |          |  |  |  |  |
| 5) Claim(s) is/are allowed.   |   |   |          |  |  |  |  |
| 6)⊠ Claim(s) <u>1-20</u> is/are rejected.   |   |   |          |  |  |  |  |
| 7) Claim(s) is/are objected to.   |   |   |          |  |  |  |  |
| 8) Claim(s) are subject to restriction and  | I/or election requirement.  |   |          |  |  |  |  |
| Application Papers  |   |   |          |  |  |  |  |
| 9) The specification is objected to by the Exami  | ner.  |   |          |  |  |  |  |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  |   |   |          |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   |   |   |          |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  |   |   |          |  |  |  |  |
| 11)☐ The oath or declaration is objected to by the  | Examiner. Note the attached   | d Office Action or form PT  | O-152.   |  |  |  |  |
| Priority under 35 U.S.C. § 119  |   | •   | •        |  |  |  |  |
| 12)⊠ Acknowledgment is made of a claim for foreig   | an priority under 35 U.S.C. §   | § 119(a)-(d) or (f).  | •        |  |  |  |  |
| a)⊠ All b)□ Some * c)□ None of:   | gir priority arraer de everer g   | , ( . , ( . , , )   |          |  |  |  |  |
| 1.⊠ Certified copies of the priority docume   | ents have been received.  | •   |          |  |  |  |  |
| 2. Certified copies of the priority documents have been received in Application No  |   |   |          |  |  |  |  |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage   |   |   |          |  |  |  |  |
| application from the International Bure   | eau (PCT Rule 17.2(a)).   |   |          |  |  |  |  |
| * See the attached detailed Office action for a list of the certified copies not received.  |   |   |          |  |  |  |  |
|   |   |   |          |  |  |  |  |
|   |   |   |          |  |  |  |  |
| Attachment(s)   |   |   |          |  |  |  |  |
| 1) Notice of References Cited (PTO-892)   |   | Summary (PTO-413)   |          |  |  |  |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)  |   | s)/Mail Date nformal Patent Application   |          |  |  |  |  |
| Paper No(s)/Mail Date <u>2/10/2006</u> .  | 6)  Other:  | · ·   |          |  |  |  |  |

#### **DETAILED ACTION**

### **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 5, 6, 8, 9, 12-17, 19, 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Obie et al. (5,038,096).

With respect to claims 1, 5, 8, 9, 15, 19, Obie et al. discloses a signal measuring device comprising a local signal generating means (106) that generates a local signal; a mixing means (104) that mixes a signal (Pulse signal) to be measured with the local signal; a frequency sweeping means (120, 122, 124) that sweeps the frequency of the local signal; and a sweep control means that terminates the sweep upon a termination of a presence section of the signal to be measured.

With respect to claims 2, 16, Obie et al. discloses said sweep control means (120, 122, 124) receives a trigger signal whose state changes upon the termination of the presence section of the signal to be measured.

With respect to claims 3, 17, Obie et al. discloses an intermediate frequency filter (108) that extracts a component within a predetermined frequency band from said

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mixing means (104), wherein the trigger signal is generated based upon an output from said intermediate frequency filter.

With respect to claims 6, 12-14, 20, Obie discloses widths of sections including the carrier waves differ from each other (It is inherently that the signals being tested do not have the same width or frequency, they differ from each other).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4, 7, 10, 11. 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Obie et al. (5,038,096) in view of Tomikawa (5,869,959).

With respect to claims 4, 7, 10, 11, 18, Obie et al. discloses said sweep control means comprises a delay means that delays the trigger signal (Col. 7 lines 8-21).

Obie does not disclose a logical product output means that takes and outputs a logical product of an output from said delay means and the trigger signal, and whether the sweep is terminated or not is determined according to said logical product output means.

Tomikawa discloses a system similar to that of Obie et al. and further discloses a logical product (23C) to logically control the signals.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the logical product instead of using microprocessor

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into the system of Obie of because using the  $\mu P$  (124) or using the logical product is the

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matter of design choice depends upon the cost constraining.

Contact Information

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Vincent Q. Nguyen whose telephone number is (571)

272-2234. The examiner can normally be reached on 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Andrew Hirshfeld can be reached on (571) 272-2168. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vincent Q. Nguyen Primary Examiner

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